

CLASSIFICATION:

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION SHEET P-40 | | | | | | | | DATE: February 2004 | | | |
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| APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA2-COMMUNICATIONS AND ELECTRONIC EQUIPMENT | | | | | | | | P-1 ITEM NOMENCLATURE: BLI 284500 AIR STATION ATC EQUIPMENT* (42MR) | | | |
| Program Element for Code B Items: Not Applicable | | | | | | | | Other Related Program Elements 0204696N | | | |
| | Prior Years | ID Code | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | To Complete | Total |
| QUANTITY | | | | | | | | | | | |
| (In Millions) | \$127.9 | N/A | \$6.8 | \$7.5 | \$3.6 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | CONT | CONT |
| DESCRIPTION: | | | | | | | | | | | |
| <p>The Chief of Naval Operations (CNO) tasked the Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that is required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used at Navy and Marine Corps Aviation Shore activities in the continental United States and overseas.</p> <p>(1) Communications Systems Upgrade Program - This program procures and installs advanced, commercial state-of-the-art, ATC voice switching and recording/reproduction equipment which will be used to replace aging AN/FSA-52/58 and OJ-314 voice communication switching systems and the RD-379/379A/390 and RP-214 recorder/reproducers. Existing equipment use 1950's toggle switch & 1960's push-button analog technology that is becoming logistically unsupportable.</p> <p>(2) UHF/VHF Radio Replacement Program - This program modernizes unsupportable Navy and Marine Corps UHF/VHF voice communication transmitter and receiver equipment. This equipment is the central core of all critical Air Traffic Control communications. This program is replacing the aging AN/GRT-21/22 VHF/UHF (10 watt) transmitters, AM-6154/GRT-21 & AM-6155/GRT-22 VHF/UHF (50 watt) Linear Power Amplifiers, and AN/GRR-23/24 VHF/UHF receivers. Replacement of these radios is the number one ATC priority of both the Fleet and OPNAV Sponsor. This is a safety-of-flight issue.</p> <p>(3) Engineering Change Proposal (ECP)/Operational Capability Improvement Request (OCIR) modernization: The ECP/OCIR program provides for the procurement, and or modification, of critically needed communications, radar, displays, data processors, and other electronic systems/equipment needed at Navy/Marine Corps Air Traffic Control facilities worldwide. ECP/OCIR procurements replace and modernize costly-to-maintain systems and equipment in order to increase Air Traffic Control efficiency and safety, improve affordable readiness, and reduce total ownership costs.</p> <p>FY 05 funds will procure: 428 UHF/VHF Radio Replacements (MR407).</p> <p>*Note: P-1 item nomenclature changed to Air Station ATC Equipment, formerly Air Station Support Equipment.</p> | | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a | | | | | | | | | DATE: February 2004 | | |
|-------------------------------------------------------------------------------------------------------|---------|-------------|---------|---------|---------|---------|--------------------------------------------------------------------------|---------|------------------------|-------------|--------|
| APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/ BA2-COMMUNICATIONS AND ELECTRONIC EQUIPMENT | | | | | | | P-1 ITEM NOMENCLATURE: AIR STATION ATC EQUIPMENT (42MR) BLI 284500 | | | | |
| Procurement Items | ID CODE | Prior Years | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | To Complete | Total |
| MR069 ECP/OCIR | N/A | | | | | | | | | | |
| QTY | | 166 | | 1 | | | | | | CONT | CONT |
| FUNDING | | 5.979 | | 0.078 | | | | | | CONT | CONT |
| MR407 UFH/VHF RADIO REPLACEMENT | N/A | | | | | | | | | | |
| QTY | | 2312 | 343 | 342 | 428 | | | | | | 3425 |
| FUNDING | | 11.565 | 1.202 | 1.781 | 2.269 | | | | | | 16.817 |
| MR408 COMMUNICATION SYSTEM UPGRADE | N/A | | | | | | | | | | |
| QTY | | 34 | 6 | 9 | | | | | | | 49 |
| FUNDING | | 9.719 | 1.958 | 2.066 | | | | | | | 13.743 |
| MR430 FIBER OPTIC INTERSITE UPGRADE | N/A | | | | | | | | | | |
| QTY | | | | 1 | | | | | | 7 | 8 |
| FUNDING | | | | 0.150 | | | | | | 1.176 | 1.326 |
| | | | | | | | | | | | |
| MR440 UHF/VHF TRANSCEIVER REPLACEMENT | N/A | | | | | | | | | | |
| QTY | | | | | | | | | | 340 | 340 |
| FUNDING | | | | | | | | | | 5.610 | 5.61 |
| | | | | | | | | | | | |
| OTHER COST | N/A | 100.669 | 3.676 | 3.468 | 1.371 | | | | | CONT | CONT |
| TOTAL FUNDING | N/A | 127.932 | 6.836 | 7.543 | 3.640 | | | | | CONT | CONT |
| | | | | | | | | | | | |

P-1 SHOPPING LIST

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| WEAPONS SYSTEM COST ANALYSIS P-5 | | | | | | | Weapon System | | | DATE: February 2004 | | | |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------|----------|-----------|------------|---------------|----------------------------------------------|------------|------------------------|-----------|------------|--|
| APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY | | | | | | | ID Code | P-1 ITEM NOMENCLATURE/SUBHEAD: BLI 284500 | | | | | |
| BA2 - COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | | | | | | N/A | AIR STATION ATC EQUIPMENT (42MR) | | | | | |
| COST CODE | ELEMENT OF COST | ID Code | TOTAL COST IN THOUSANDS OF DOLLARS | | | | | | | | | | |
| | | | Prior Years | FY 2003 | | | FY 2004 | | | FY 2005 | | | |
| | | | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | Quantity | Unit Cost | Total Cost | |
| MR069 | ECP/OCIR | N/A | 5,979 | | | | 1 | 78 | 78 | | | | |
| MR407 | UHF/VHF RADIO REPLACEMENT | N/A | 11,565 | 343 | 4 | 1,202 | 342 | 5 | 1,781 | 428 | 5 | 2,269 | |
| MR408 | COMMUNICATION SYSTEM UPGRADE | N/A | 9,719 | 6 | 326 | 1,958 | 9 | 230 | 2,066 | | | | |
| MR430 | FIBER OPTIC INTERSITE UPGRADE | | | | | | 1 | 150 | 150 | | | | |
| MR435 | NEXT GENERATION COMMUNICATION SYSTEM UPGRADE | | | | | | | | | | | | |
| MR440 | UHF/VHF TRANSCEIVER REPLACEMENT | N/A | | | | | | | | | | | |
| MR800 | INTEGRATED LOGISTICS SUPPORT | N/A | 5,546 | | | 377 | | | 330 | | | 194 | |
| MR830 | PRODUCTION ENGINEERING | N/A | 14,440 | | | 675 | | | 571 | | | 232 | |
| MR900 | INSTALLATION OF EQUIPMENT (NON-FMP) | N/A | 29,123 | | | 2,455 | | | 2,338 | | | 822 | |
| MR990 | INITIAL TRAINING | N/A | 1,240 | | | 169 | | | 229 | | | 123 | |
| | VARIOUS 1/ | | 50,320 | | | | | | | | | | |
| | 1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 2002 and beyond | | | | | | | | | | | | |
| | | | 127,932 | | | 6,836 | | | 7,543 | | | 3,640 | |

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| BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | | | | | | Weapon System | | A. DATE February 2004 | | | |
| B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY | | | | | C. P-1 ITEM NOMENCLATURE | | | | | SUBHEAD | |
| BA2 - COMMUNICATIONS AND ELECTRONICS EQUIPMENT | | | | | AIR STATION ATC EQUIPMENT | | | | | (42MR) | |
| Cost Element/ FISCAL YEAR | QUANTITY | UNIT COST (000) | LOCATION OF PCO | RFP ISSUE DATE | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAILABLE NOW | DATE REVISIONS AVAILABLE | |
| MR407 UHF/VHF RADIO REPLACEMENT | | | | | | | | | | | |
| FY04 | 342 | 5 | SSC, CHASN, SC | 06/03 | FFP | GENERAL DYNAMICS, SCOTTSDALE AZ* | 1/04 | 05/04 | YES | | |
| FY05 | 428 | 5 | SSC, CHASN, SC | 06/03 | FFP/OPTION | GENERAL DYNAMICS, SCOTTSDALE AZ* | 12/04 | 05/05 | YES | | |
| MR408 COMM SYSTEM UPGRADE | | | | | | | | | | | |
| FY04 | 9 | 230 | FAA, WASH.,D.C. | 02/95 | FFP/OPTION | DENRO, GAITHERSBURG, MD | 1/04 | 06/04 | YES | | |
| D. REMARKS | | | | | | | | | | | |
| MR408 - Communication System Upgrade requirements vary from site to site, which causes equipment size and costs to vary from site to site, average unit costs are shown. | | | | | | | | | | | |

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| P3A | | INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: <u>AIR STATION</u> | | TYPE MODIFICATION: <u>CAPABILITY IMPROVEMENT</u> | | | | MODIFICATION TITLE: <u>MR069 ECP/OCIR</u> | | | | | | | | | | | | | | |
| DESCRIPTION/JUSTIFICATION: | | | | | | | | | | | | | | | | | | | | |
| The ECP/OCIR program (MR069) provides for the procurement, and or modification, of critically needed communications, radar, displays, data processors, and other electronic systems/equipment needed at Navy/Marine Corps Air Traffic Control facilities worldwide. ECP/OCIR procurements replace and modernize costly-to-maintain systems and equipments in order to increase Air Traffic Control efficiency and safety, improve affordable readiness, and reduce total ownership costs. | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: | | | | | | | | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | | | | | | | | |
| | <u>Prior Years</u> | | <u>FY 2003</u> | | <u>FY 2004</u> | | <u>FY 2005</u> | | <u>FY 2006</u> | | <u>FY 2007</u> | | <u>FY 2008</u> | | <u>FY 2009</u> | | <u>TC</u> | | <u>TOTAL</u> | |
| | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ |
| <u>FINANCIAL PLAN (IN MILLIONS)</u> | | | | | | | | | | | | | | | | | | | | |
| <u>RDT&E</u> | | | | | | | | | | | | | | | | | | | | |
| <u>PROCUREMENT</u> | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| ECP 1 Grp "A" | 166 | 5.979 | | | 1 | 0.078 | | | | | | | | | | | CONT | CONT | CONT | CONT |
| DATA | | | | | | | | | | | | | | | | | | | | |
| TRAINING EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| SUPPORT EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| PE | | 0.040 | | 0.025 | | 0.026 | | | | | | | | | | | | | | 0.091 |
| ILS | | 0.040 | | 0.040 | | 0.026 | | | | | | | | | | | | | | 0.106 |
| INITIAL TRAINING | | | | | | | | | | | | | | | | | | | | |
| OTHER | | 79.870 | | | | | | | | | | | | | | | | | | 79.870 |
| INTERIM CONTRACTOR SUPPORT | | | | | | | | | | | | | | | | | | | | |
| INSTALL COST | 166 | 10.164 | | | 1 | 0.042 | | | | | | | | | | | | CONT | | CONT |
| TOTAL PROCUREMENT | | 96.093 | | 0.065 | | 0.172 | | | | | | | | | | | | CONT | | CONT |

NOTE: * The equipment and installation costs represented on this P-3A are for individual modification programs that do not exceed \$5 Million in either budget year or \$10 Million in all years.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

AIR STATION

MODIFICATION TITLE:

ECP/OCIR (MR069)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

CONTRACT DATES:

DELIVERY DATE:

AIT

MONTHS (Various)

FY 2003:

FY 2003:

N/A

N/A

PRODUCTION LEADTIME:

FY 2004:

FY 2004:

N/A

N/A

MONTHS (Various)

FY 2005:

FY 2005:

N/A

N/A

(\$ in Millions)

| Cost: | Prior Years | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | TO COMPLETE | | TOTAL | |
|-------------------|-------------|--------|---------|----|---------|-------|---------|----|---------|----|---------|----|---------|----|---------|----|-------------|------|-------|--------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| PRIOR YEARS | 166 | 10.164 | | | | | | | | | | | | | | | | | 166 | 10.164 |
| FY 2003 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2004 EQUIPMENT | | | | | 1 | 0.042 | | | | | | | | | | | | | 1 | 0.042 |
| FY 2005 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2006 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2007 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2008 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2009 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| TO COMPLETE | | | | | | | | | | | | | | | | | CONT | CONT | CONT | CONT |

INSTALLATION SCHEDULE:

| | FY 2002 & Prior | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | TC | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|------|-------|
| In | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CONT | CONT |
| Out | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | CONT | CONT |

NOTE: * The equipment and installation costs represented on this P-3A are for individual modification programs that do not exceed \$5 Million in either budget year or \$10 Million in all yea

P-3A

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| CLASSIFICATION: UNCLASSIFIED | | | | | | | | | | | | | | | | | | | | |
| P3A INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: <u>AIR STATION</u> | | | | TYPE MODIFICATION: <u>MODERNIZATION</u> | | | | MODIFICATION TITLE: <u>UHF/VHF Radio Replacement (MR407)</u> | | | | | | | | | | | | |
| DESCRIPTION/JUSTIFICATION: Replacement Program - This program modernizes aging Navy and Marine Corps UHF/VHF transmitter and receiver equipment that is the central core of all critical Air Traffic Control communications. This program is procuring Non-Developmental Items (NDIs) previously developed by Motorola for the FAA as form, fit, and function replacements of the aging AN/GRT-21/22 VHF/UHF (10 watt) transmitters, AM-6154/GRT-21 & AM-6155/GRT-22 VHF/UHF (50 watt) Linear Power Amplifiers, and AN/GRR-23/24 VHF/UHF receivers that are the same as those used by the Navy and Marine Corps. The UHF/VHF radio replacement program replaces existing radios that use 1960's analog technology, vacuum tubes and other out-of-production components that cause numerous casualty reports (CASREPs) and logistics supportability problems due to equipment and parts obsolescence. | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: | | | | | | | | | | | | | | | | | | | | |
| NDI | | | | | | | | | | | | | | | | | | | | |
| | <u>Prior Years</u> | | <u>FY 2003</u> | | <u>FY 2004</u> | | <u>FY 2005</u> | | <u>FY 2006</u> | | <u>FY 2007</u> | | <u>FY 2008</u> | | <u>FY 2009</u> | | <u>TC</u> | | <u>TOTAL</u> | |
| | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ |
| FINANCIAL PLAN (IN MILLIONS) | | | | | | | | | | | | | | | | | | | | |
| <i>RDT&E</i> | | | | | | | | | | | | | | | | | | | | |
| <i>PROCUREMENT</i> | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | 2312 | 11.565 | 343 | 1.202 | 342 | 1.781 | 428 | 2.269 | | | | | | | | | | | 3425 | 16.817 |
| DATA | | | | | | | | | | | | | | | | | | | | |
| TRAINING EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| SUPPORT EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| PE | | 0.560 | | 0.193 | | 0.091 | | 0.100 | | | | | | | | | | | | 0.944 |
| ILS | | 0.280 | | 0.050 | | 0.042 | | 0.045 | | | | | | | | | | | | 0.417 |
| TRAINING | | | | | | | | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | | | | | | | | |
| INTERIM CONTRACTOR SUPPORT | | | | | | | | | | | | | | | | | | | | |
| INSTALL COST | 2312 | 1.340 | 343 | 0.275 | 342 | 0.210 | 428 | 0.284 | | | | | | | | | | | 3425 | 2.109 |
| TOTAL PROCUREMENT | | 13.745 | | 1.720 | | 2.124 | | 2.698 | | | | | | | | | | | | 20.287 |

*Prior Year costs and quantities not provided



CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED:

AIR STATION

MODIFICATION TITLE:

UHF/VHF RADIO REPLACEMENT (MR407)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

AIT

ADMINISTRATIVE LEADTIME:

2 MONTHS

PRODUCTION LEADTIME:

5 MONTHS

CONTRACT DATES:

FY 2003: 12/02FY 2004: 1/04FY 2005: 12/04

DELIVERY DATE:

FY 2003: 4/03FY 2004: 4/04FY 2005: 4/05

(\$ in Millions)

| Cost: | Prior Years | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | To Complete | | Total | |
|-------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|----|---------|----|-------------|----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| PRIOR YEARS | 2312 | 1.340 | | | | | | | | | | | | | | | | | 2312 | 1.340 |
| FY 2003 EQUIPMENT | | | 343 | 0.275 | | | | | | | | | | | | | | | 343 | 0.275 |
| FY 2004 EQUIPMENT | | | | | 342 | 0.210 | | | | | | | | | | | | | 342 | 0.210 |
| FY 2005 EQUIPMENT | | | | | | | 428 | 0.284 | | | | | | | | | | | 428 | 0.284 |
| FY 2006 EQUIPMENT | | | | | | | | | 521 | 0.328 | | | | | | | | | 521 | 0.328 |
| FY 2007 EQUIPMENT | | | | | | | | | | | 194 | 0.132 | | | | | | | 194 | 0.132 |
| FY 2008 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2009 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| TO COMPLETE | | | | | | | | | | | | | | | | | | | | |

INSTALLATION SCHEDULE:

| | | FY 2002 | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | IC | TOTAL |
|-----|--|---------|---------|---|-----|-----|---------|---|-----|---|---------|---|-----|---|---------|-----|-----|---|---------|---|-----|---|---------|---|---|---|---------|---|---|---|----|-------|
| | | & Prior | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| In | | 2312 | 0 | 0 | 343 | 0 | 0 | 0 | 342 | 0 | 0 | 0 | 428 | 0 | 0 | 0 | 521 | 0 | 0 | 0 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4140 |
| Out | | 2312 | 0 | 0 | 0 | 343 | 0 | 0 | 0 | 0 | 342 | 0 | 0 | 0 | 0 | 428 | 0 | 0 | 0 | 0 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4140 |

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| CLASSIFICATION: UNCLASSIFIED | | | | | | | | | | | | | | | | | | | | |
| P3A INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: <u>AIR STATION</u> TYPE MODIFICATION: <u>MODERNIZATION</u> MODIFICATION TITLE: <u>COMMUNICATION SYSTEM UPGRADE (MR408)</u> | | | | | | | | | | | | | | | | | | | | |
| <p>Communications Systems Upgrade - Advanced commercial state-of-the-art ATC voice switching and recording/reproduction equipment which will be used to replace existing AN/FSA-52/58 and OJ-314 voice communications switching systems and the RD-379/379A/390 and RP-214 recorder/reproducers. Existing systems and equipment use 1950's toggle switch & 1960's push-button analog technology, are no longer in production, and causing numerous casualty reports (CASREPs) and logistics supportability problems due to system and parts obsolescence. The voice switching system selected for use by the Navy is a Non-Developmental Item, developed by the FAA via a, full and open competition, contract which was awarded by the FAA to Denro, Inc. The recorder/reproducer system selected for use by the Navy is a commercial item produced by Advanced Integrated Recorders, Inc. and are obtained through a contract awarded to AIR, Inc. by our coordinating field activity, SPAWAR Charleston, SC. The existing equipment is obsolete and becoming logistically unsupportable. Note - New recorder/reproducers will be procured and installed at all Navy/Marine Corps Air Stations with up to two new recorder/reproducers systems needed per each communications system upgrade shown below.</p> | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NDI</u> | | | | | | | | | | | | | | | | | | | | |
| | <u>Prior Years</u> | | <u>FY 2003</u> | | <u>FY 2004</u> | | <u>FY 2005</u> | | <u>FY 2006</u> | | <u>FY 2007</u> | | <u>FY 2008</u> | | <u>FY 2009</u> | | <u>TC</u> | | <u>TOTAL</u> | |
| | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ |
| FINANCIAL PLAN (IN MILLIONS) | | | | | | | | | | | | | | | | | | | | |
| <u>RDT&E</u> | | | | | | | | | | | | | | | | | | | | |
| <u>PROCUREMENT</u> | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | 34 | 9.719 | 6 | 1.958 | 9 | 2.066 | | | | | | | | | | | | | 49 | 13.743 |
| DATA | | | | | | | | | | | | | | | | | | | | |
| TRAINING EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| SUPPORT EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| PE | | 1.273 | | 0.457 | | 0.268 | | 0.132 | | | | | | | | | | | | 2.130 |
| ILS | | 0.237 | | 0.287 | | 0.192 | | 0.149 | | | | | | | | | | | | 0.865 |
| TRAINING | | 0.401 | | 0.169 | | 0.179 | | 0.123 | | | | | | | | | | | | 0.872 |
| OTHER | | | | | | | | | | | | | | | | | | | | |
| INTERIM CONTRACTOR SUPPORT | | | | | | | | | | | | | | | | | | | | |
| INSTALL COST | 29 | 6.464 | 8 | 2.180 | 8 | 1.991 | 4 | 0.538 | | | | | | | | | | | 49 | 11.173 |
| TOTAL PROCUREMENT | | 18.094 | | 5.051 | | 4.696 | | 0.942 | | | | | | | | | | | | 28.783 |

MR408 Equipment size and cost will vary from site to site, applicable installation costs will vary based on equipment size and location of installation, average costs are shown for budgeting and planning purposes.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: AIR STATION

MODIFICATION TITLE: COMMUNICATION SYSTEM UPGRADE (MR408)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 3 MONTHS

CONTRACT DATES: FY 2003: 12/02

DELIVERY DATE: FY 2003: 6/03

PRODUCTION LEADTIME: 6 MONTHS

FY 2004: 01/04

FY 2004: 6/04

FY 2005:

FY 2005:

(\$ in Millions)

| Cost: | Prior Years | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | To Complete | | Total | |
|-------------------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|----|---------|----|---------|----|---------|----|-------------|----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| PRIOR YEARS | 29 | 6.464 | 5 | 1.363 | | | | | | | | | | | | | | | 34 | 7.827 |
| FY 2003 EQUIPMENT | | | 3 | 0.817 | 3 | 0.720 | | | | | | | | | | | | | 6 | 1.537 |
| FY 2004 EQUIPMENT | | | | | 5 | 1.271 | 4 | 0.538 | | | | | | | | | | | 9 | 1.809 |
| FY 2005 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2006 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2007 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2008 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2009 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| TO COMPLETE | | | | | | | | | | | | | | | | | | | | |

INSTALLATION SCHEDULE:

| | FY 2002 & Prior | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | TOTAL |
|-----|--------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| In | 29 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Out | 29 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |

ITEM NO. 61

PAGE 5E

CLASSIFICATION: UNCLASSIFIED

P-3A

CLASSIFICATION: UNCLASSIFIED

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: AN/FAC-6(V)1/4 FOIS TYPE MODIFICATION: MODERNIZATION MODIFICATION TITLE: FIBER OPTIC INTERSITE UPGRADE (MR430)

This effort will upgrade and replace obsolete and unsupportable components and assemblies being used in the AN/FAC-6(V)1 Fiber Optic Intersite System (FOIS) required for Precision Approach Radar (PAR) operations and the AN/FAC-6(V)4 FOIS required for ATC voice communications at Naval and Marine Corps Air Station (NAS/MCAS) facilities worldwide. This FOIS equipment has substantially increased the operational availability (Ao) of the applicable PAR and ATC voice communication systems by eliminating equipment damage and failures to these critical ATC systems that were previously caused by lightning and other sources of high power electro-magnetic interference (EMI) and radio frequency interference (RFI). The original equipment manufacturer (OEM-FIBERCOM) of this AN/FAC-6(V)1/4 FOIS equipment has filed for bankruptcy and has not produced any replacement parts for these systems over the past five years. Stock inventories of repair parts for these systems are being rapidly exhausted. This program provides for future logistics support and continued capability sustainment of these critical ATC systems. This upgraded FOIS equipment will be installed at all NAS/MCAS facilities worldwide. All applicable ECP and CCB documentation will be prepared, submitted and approved in accordance with current NAVAIR policies and procedures.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Modified Commercial-Off-The-Shelf (COTS)

| | <u>Prior Years</u> | | <u>FY 2003</u> | | <u>FY 2004</u> | | <u>FY 2005</u> | | <u>FY 2006</u> | | <u>FY 2007</u> | | <u>FY 2008</u> | | <u>FY 2009</u> | | <u>TC</u> | | <u>TOTAL</u> | |
|------------------------------|--------------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|------------|-----------|--------------|-----------|
| | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> | <u>QTY</u> | <u>\$</u> |
| FINANCIAL PLAN (IN MILLIONS) | | | | | | | | | | | | | | | | | | | | |
| <u>RDT&E</u> | | | | | | | | | | | | | | | | | | | | |
| <u>PROCUREMENT</u> | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | | | | | 1 | 0.150 | | | | | | | | | | | 7 | 1.176 | 8 | 1.326 |
| DATA | | | | | | | | | | | | | | | | | | | | |
| TRAINING EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| SUPPORT EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| PE | | | | | | 0.186 | | | | | | | | | | | | | | 0.186 |
| ILS | | | | | | 0.070 | | | | | | | | | | | | | | 0.070 |
| TRAINING | | | | | | 0.050 | | | | | | | | | | | | | | 0.050 |
| OTHER | | | | | | | | | | | | | | | | | | | | |
| INTERIM CONTRACTOR SUPPORT | | | | | | | | | | | | | | | | | | | | |
| INSTALL COST | | | | | 1 | 0.095 | | | | | | | | | | | 7 | 0.693 | 8 | 0.788 |
| TOTAL PROCUREMENT | | | | | | 0.551 | | | | | | | | | | | 1.869 | | 2.420 | |

ITEM NO. 61

PAGE 5F

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: AN/FAC-6(V)1/4 FOIS MODIFICATION TITLE: FIBER OPTIC INTERSITE UPGRADE (INSTALLATION) (MR430)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Alteration Installation Team (AIT)
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 4 Months
CONTRACT DATES: FY 2003: FY 2004: 1/04 FY 2005:
DELIVERY DATE: FY 2003: FY 2004: 04/04 FY 2005:

(\$ in Millions)

| Cost: | Prior Years | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | TC | | Total | |
|-------------------|-------------|----|---------|----|---------|-------|---------|----|---------|----|---------|-------|---------|-------|---------|-------|-----|-------|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| PRIOR YEARS | | | | | | | | | | | | | | | | | | | | |
| FY 2003 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2004 EQUIPMENT | | | | | 1 | 0.095 | | | | | | | | | | | | | 1 | 0.095 |
| FY 2005 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2006 EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| FY 2007 EQUIPMENT | | | | | | | | | | | 9 | 0.845 | | | | | | | 9 | 0.845 |
| FY 2008 EQUIPMENT | | | | | | | | | | | | | 9 | 0.855 | | | | | 9 | 0.855 |
| FY 2009 EQUIPMENT | | | | | | | | | | | | | | | 9 | 0.875 | | | 9 | 0.875 |
| TO COMPLETE | | | | | | | | | | | | | | | | | 7 | 0.693 | 7 | 0.693 |

INSTALLATION SCHEDULE:

| In Out | FY2002 & Prior | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | TC | TOTAL |
|-----------|-------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----|-------|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 | 7 | 35 |

P-3A

CLASSIFICATION: **UNCLASSIFIED**

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|----------------|-----------------------------------------|----------------|----|----------------|--------------------------------------------------------------------|----------------|----|----------------|----|----------------|----|----------------|----|-----------|-------|--------------|-------|
| P3A INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: <u>AIR STATION</u> | | | | TYPE MODIFICATION: <u>MODERNIZATION</u> | | | | MODIFICATION TITLE: <u>UFH/VHF TRANSCEIVER REPLACEMENT (MR440)</u> | | | | | | | | | | | | |
| <p>This program modernizes aging Navy and Mariner Corps UFH/VHF Transceivers that are the central core of all Air Traffic Control emergency communications. The program will procure Non-Development Items (NDIs) developed by General Dynamics Decision Systems for the FAA as form, fit and function replacements of the aging AN/GRC-171/211 UFH/VHF Transceivers.</p> | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>NDI</u> | | | | | | | | | | | | | | | | | | | | |
| | <u>Prior Years</u> | | <u>FY 2003</u> | | <u>FY 2004</u> | | <u>FY 2005</u> | | <u>FY 2006</u> | | <u>FY 2007</u> | | <u>FY 2008</u> | | <u>FY 2009</u> | | <u>IC</u> | | <u>TOTAL</u> | |
| | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ | QTY | \$ |
| FINANCIAL PLAN (IN MILLIONS) | | | | | | | | | | | | | | | | | | | | |
| <u>RD&E</u> | | | | | | | | | | | | | | | | | | | | |
| <u>PROCUREMENT</u> | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS | | | | | | | | | | | | | | | | | | | | |
| INSTALLATION KITS NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT NRE | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT | | | | | | | | | | | | | | | | | 340 | 5.610 | 340 | 5.610 |
| DATA | | | | | | | | | | | | | | | | | | | | |
| TRAINING EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| SUPPORT EQUIPMENT | | | | | | | | | | | | | | | | | | | | |
| PE | | | | | | | | | | | | | | | | | | 0.188 | | 0.188 |
| ILS | | | | | | | | | | | | | | | | | | | | 0.000 |
| TRAINING | | | | | | | | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | | | | | | | | |
| INTERIM CONTRACTOR SUPPORT | | | | | | | | | | | | | | | | | | | | |
| INSTALL COST | | | | | | | | | | | | | | | | | 340 | 0.585 | 340 | 0.585 |
| TOTAL PROCUREMENT | | | | | | | | | | | | | | | | | | 6.383 | | 6.383 |

CLASSIFICATION: **UNCLASSIFIED**

| P3A (Continued) | | INDIVIDUAL MODIFICATION (Continued) | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|-------------------------------------------|----|---------|----|---------------------|----|---------|----|--------------------------------------------------------------------|----|---------|----|---------------------|----|---------|----|-----|-------|-------|-------|
| MODELS OF SYSTEMS AFFECTED: | | <u>AIR STATION</u> | | | | | | | | MODIFICATION TITLE: <u>UFH/VHF TRANSCEIVER REPLACEMENT (MR440)</u> | | | | | | | | | | | |
| INSTALLATION INFORMATION: | | | | | | | | | | | | | | | | | | | | | |
| METHOD OF IMPLEMENTATION: | | <u>Alteration Installation Team (AIT)</u> | | | | | | | | | | | | | | | | | | | |
| ADMINISTRATIVE LEADTIME: | | <u>2 Months</u> | | | | | | | | | | | | | | | | | | | |
| CONTRACT DATES: | | FY 2003: <u>N/A</u> | | | | FY 2004: <u>N/A</u> | | | | FY 2005: <u>N/A</u> | | | | FY 2006: <u>N/A</u> | | | | | | | |
| DELIVERY DATE: | | FY 2003: <u>N/A</u> | | | | FY 2004: <u>N/A</u> | | | | FY 2005: <u>N/A</u> | | | | FY 2006: <u>N/A</u> | | | | | | | |
| (\$ in Millions) | | | | | | | | | | | | | | | | | | | | | |
| Cost: | | Prior Years | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | TC | | Total | |
| | | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| PRIOR YEARS | | | | | | | | | | | | | | | | | | | | | |
| FY 2003 EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
| FY 2004 EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
| FY 2005 EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
| FY 2006 EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
| FY 2007 EQUIPMENT | | | | | | | | | | | | | | | | | | | | | |
| FY 2008 EQUIPMENT | | | | | | | | | | | | | | | | | | | | 0 | 0.000 |
| FY 2009 EQUIPMENT | | | | | | | | | | | | | | | | | | | | 0 | 0.000 |
| TO COMPLETE | | | | | | | | | | | | | | | | | | 340 | 0.585 | 340 | 0.585 |

INSTALLATION SCHEDULE:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|-----|-----|-------|
| | FY2002 & Prior | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | TC | TOTAL |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| | In | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 476 |
| Out | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 476 | |